

Cell Line Authentication Service STR Profile Report

Sample Submitted By: Shanghai Jinyuan Biotechnology Co., Ltd.
Sales Order: 250401E
Cell Line Designation: Lu-65
Date Sample Received: Apr 1th, 2025
Report Date: Apr 2th, 2025

Methodology: Twenty-one short tandem repeat (STR) loci plus the Amelogenin locus were amplified using the commercially available SiFaSTR™ 23 plex Kit. The cell line sample was processed using the ABI Prism® 3130 XL Genetic Analyzer. Data were analyzed using GeneMapper® ID v3.2 software (Applied Biosystems). Appropriate positive and negative controls were run and confirmed for each sample submitted.

Data Interpretation: Cell lines were authenticated using Short Tandem Repeat (STR) analysis as described in 2021 in ANSI Standard (ASN-0002) by the ATCC Standards Development Organization (SDO) and in Jamie L. Almeida et al., Authentication of Human and Mouse Cell Lines by Short Tandem Repeat (STR) DNA Genotype Analysis. Assay Guidance Manual. PMID: 23805434. Bookshelf ID: NBK144066.

GTB™ performs STR Profiling following ISO 9001:2008 and ISO/IEC 17025:2005 quality standards.

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NOTE: According to the recommendations of IJC on cell line authentication, the report is valid for 3 years since the issue date.

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Test Results for Submitted Sample		ExPASy Reference Database Profile	
Loci	Query Profile: Lu-65	Database Profile: Lu-65	
Amelogenin	X	X	
D3S1358	15 16		
D5S818	12	12	
D2S1338	17 26		
TPOX	8 11	8	11
CSF1PO	10 13	10	13
Penta D	11 13		
TH01	6	6	
vWA	18	18	
D7S820	11 12	11	12
D21S11	31.2		
Penta E	8 17		
D10S1248	14		
D8S1179	14		
D1S1656	14 16		
D18S51	18		
D12S391	19 26		
D6S1043	12 19		
D19S433	11 15.2		
D16S539	9 11	9	11
D13S317	10	10	
FGA	26		

The allele match algorithm compares the 8 core loci plus Amelogenin only, even though alleles from all loci will be reported when available.

Note: Loci highlighted in grey (8 core loci plus Amelogenin) can be made public to verify cell identity. In order to protect the identity of the donor, **please do not publish** the allele calls from all the STR loci tested.

The sample match is based on the reference data available at the time of comparison.

Explanation of Test Results

Cell lines with $\geq 80\%$ match are derived from the same donor. Cell lines with between a 70% to 79% match require further profiling for authentication of relatedness. Cell lines with $< 70\%$ match are very unlikely to be from the same donor.

- ☐ The submitted sample profile is human, but not a match for any profile in the ExPASy STR database.
- ☒ The submitted profile is an exact match for the following human cell line(s) in the ExPASy STR database (8 core loci plus Amelogenin): Lu-65
- ☐ The submitted profile is similar to the following ExPASy human cell line(s):

e-Signature Technician:

e-Signature Reviewer:



More information



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